

DATE: 08/08/98 TIME: 15:51:46

INPUT SET: S27964.raw

This Raw Listing contains the General Information Section and those Sequences containing ERRORS.

1	SEQUENCE LISTING	
2		Does Not Comply
3	(1) General Information:	
4		errected Diskette Needed
5 6	•	anon a t
7		11 mallowt
8	,	3 mily
9	· · · · · · · · · · · · · · · · · · ·	
10	(ii) TITLE OF INVENTION: PROCESS AND INTERMEDIATE	PRODUCTS FOR
11	PREPARING CARDIODILATIN FRAGMENTS AND HIGHLY PURIFIED	CARDIODILATIN
12	FRAGMENTS	
13		
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22	(F) ZIP: 20005-4810	
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27 28	( , , , , , , , , , , , , , , , , , , ,	- 41 30
29		1 #1.30
30	•	
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33	(C) CLASSIFICATION:	
34		
35	( ,	
36	(,	
37 38	( ·- ,	
39		
40	( · ,	
41	• •	
42	, ,	
43	(viii) ATTORNEY/AGENT INFORMATION:	
44	(11) 1111111111111111111111111111111111	
45	(B) REGISTRATION NUMBER: 36,105	



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INPUT SET: S27964.raw

46 (C) REFERENCE/DOCKET NUMBER: P1614-8019
47
48 (ix) TELECOMMUNICATION INFORMATION:
49 (A) TELEPHONE: (202) 638-5000
50 (B) TELEFAX: (202) 368-4810
51
52

#### **ERRORED SEQUENCES FOLLOW:**

	230	(2) INFORMATION FOR SEQ ID NO:7:
	231	
	232	(i) SEQUENCE CHARACTERISTICS:
	233	(A) LENGTH: 12 amino acids
	234	(B) TYPE: amino acid
	235	(C) STRANDEDNESS:
	236	(D) TOPOLOGY: linear
	237	
	238	(ii) MOLECULE TYPE: peptide
	239	
	240	(ix) FEATURE:  (A) NAME/KEY: Modified-site globally  (B) LOCATION: 1 OTHER - who will OTHER INFORMATION
	241	(ix) FEATURE:
	242	(A) NAME/KEY: Modified-site fine all OTHER TWENTERMATION
	243	(B) LOCATION: 1 JOTHER - repeat with the contraction of the contractio
>	244	(D) Note INFORMATION: /product= "Modified by a Fmoc protecting
	245	group and a Pbf protecting group"
	246	
	247	(ix) FEATURE:
	248	(A) NAME/KEY: Modified-site
	249	(B) LOCATION: 3
>	250	(D) Note INFORMATION: /product= "Modified by a OtBu protecting
	251	group"
	252	5-112
	253	(ix) FEATURE:
	254	(A) NAME/KEY: Modified-site
	255	(B) LOCATION: 4
>	256	(D) (Note INFORMATION: /product= "Modified by a Pbf protecting
	257	group"
	258	
	259	(ix) FEATURE:
	260	(A) NAME/KEY: Modified-site
	261	(B) LOCATION: 8
>	262	(D) Note INFORMATION: /product= "Modified by a Trt protecting
	263	group"
	264	group
	265	(ix) FEATURE:
	266	(A) NAME/KEY: Modified-site
	267	(B) LOCATION: 9
	267 268	(D) Note INFORMATION: /product= "Modified by a tBu protecting
/		=
	269	group"



### RAW SEQUENCE LISTING PATENT APPLICATION US/09/027,777

8

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	270		
	-		
	271	_	
	272	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:7:
	273		
	274		Met Asp Arg Ile Gly Ala Gln Ser Gly Leu Gly
	275	1	5 10
	276		
	277	(2) TNEOD	MATION FOR SEQ ID NO:8:
	277	(2) INFOR	MATION FOR SEQ ID NO:0:
	279	(i)	SEQUENCE CHARACTERISTICS:
	280	( - )	(A) LENGTH: 8 amino acids
	281		(B) TYPE: amino acid
	282		(C) STRANDEDNESS:
	283		(D) TOPOLOGY: linear
	284		(b) for oncor. Timedi
	285	(11)	MOLECULE TYPE: peptide What role: Naa con org
	286	( )	(D) TOPOLOGY: linear  MOLECULE TYPE: peptide  FEATURE:  (A) NAME/KEY: Modified-site  (B) LOCATION: 1  (D) Note INFORMATION: Ynote= "Xaa is an Fmoc protecting group or pe
	287		rement a proper and
	288	(ix)	FEATURE: also varielle &
	289	(24)	(A) NAME/KEY: Modified-site
	290		(B) LOCATION: I
>	291		(II) Note INFORMATION: Vnote= "Xaa is an Fmoc protecting group or
-	292	H"	ne de la company
	293		
	294	(ix)	FEATURE:
	295	` '	(A) NAME/KEY: Modified-site
	296		(B) LOCATION: 2
>	297		(D) Note INFORMATION: /product= "Modified by a Trt protecting
	298	group"	
	299		
	300	(ix)	FEATURE:
	301		(A) NAME/KEY: Modified-site
	302		(B) DOCATION: 3
>	303		(D) Note INFORMATION: /product= "Modified by a Trt protecting"
	304	group"	
	305		
	306	(ix)	FEATURE:
	307		(A) NAME/KEY: Modified-site
	308		(B) LOCATION: 4
>	309		(D) Note INFORMATION: product= "Modified by a tBu protecting
	310	group"	
	311		
	312	(ix)	FEATURE:
	313		(A) NAME/KEY: Modified-site
	314		(B) LOCATION: 6
>	315		(D) Note INFORMATION: product= "Modified by a Pbf protecting
	316	group"	
	317		
	318	(ix)	FEATURE:
	319		(A) NAME/KEY: Modified-site
	320		(B) LOCATION: 7 (D) Note INFORMATION: /product= "Modified by a tBu protecting
	321		

#### RAW SEQUENCE LISTING PATENT APPLICATION US/09/027,777

DATE: 08/08/98 TIME: 15:51:49

INPUT SET: S27964.raw 322 group" 323 324 (ix) FEATURE: 325 (A) NAME/KEY: Modified-site 326 (B) LOCATION: 8 (D) (Note INFORMATION:) /note= "Xaa is/O-OH)or an O-OtBu protecting 327 group" 328 329 330 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8: 331 332 Xaa Cys Asn Ser Phe Arg Tyr (Xaa 333 334 5 335 336 (2) INFORMATION FOR SEQ ID NO:9: 337 (i) SEQUENCE CHARACTERISTICS: 338 339 (A) LENGTH: 19 amino acids 340 (B) TYPE: amino acid (C) STRANDEDNESS: 341 342 (D) TOPOLOGY: linear 343 344 (ii) MOLECULE TYPE: peptide 345 346 347 (ix) FEATURE: 348 (A) NAME/KEY: Modified-site 349 (B) LOCATION: 1 350 (D) Note INFORMATION: /note= "Xaa is H or an Fmoc protecting group" 351 352 (ix) FEATURE: 353 354 (A) NAME/KEY: Modified-site 355 (B) LQCATION: 2 (D) Note INFORMATION: /product= "Modified by a Pbf protecting 356 357 group" 358 (ix) FEATURE: 359 360 (A) NAME/KEY: Modified-site 361 (B) LOCATION: 4 (D) Note INFORMATION): /product= "Modified by a OtBu protecting 362 363 group" 364 (ix) FEATURE: 365 366 (A) NAME/KEY: Modified-site (B) LOCATION:-5 367 (D)(Note INFORMATION:) /product= "Modified by a Pbf protecting 368 group" 369 370 (ix) FEATURE: 371 372 (A) NAME/KEY: Modified-site 373 (B) LOCATION: 9

425



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INPUT SET: S27964.raw (D) Note INFORMATION; /product= "Modified by a Trt protecting --> 374 375 group" 376 (ix) FEATURE: 377 (A) NAME/KEY: Modified-site 378 379 (B) LOGATION: 10 (D) (Note INFORMATION): /product= "Modified by a tBu protecting 380 group" 381 382 383 (ix) FEATURE: (A) NAME/KEY: Modified-site 384 385 (B) LOCATION: 14 (D) (Note INFORMATION: /product= "Modified by a Trt protecting 386 387 group" 388 389 (ix) FEATURE: 390 (A) NAME/KEY: Modified-site (B) LOCATION: 15 391 (D) (Note INFORMATION) /product = "Modified by a Trt protecting --> 392 group" 393 394 (ix) FEATURE: 395 396 (A) NAME/KEY: Modified-site 397 (B) LOCATION: 16 (D\() Note INFORMATION:)/product= "Modified by a tBu protecting --> 398 group" 399 400 401 (ix) FEATURE: 402 (A) NAME/KEY: Modified-site 403 (B) LOCATION: 18 (D) (Note INFORMATION: /product= "Modified by a Pbf protecting 404 405 group" 406 (ix) FEATURE: 407 408 (A) NAME/KEY: Modified-site 409 (B) LOCATION: 19 (D) Note INFORMATION: /product= "Modified by a tBu protecting --> 410 411 group and an OtBu protecting group" 412 413 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9: 414 415 416 Xaa Arg Met Asp Arg Ile Gly Ala Gln Ser Gly Leu Gly Cys Asn Ser 417 418 419 Phe Arg Tyr 420 421 422 (2) INFORMATION FOR SEQ ID NO:10: 423 424 (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 32 amino acids

# RAW SEQUENCE LISTING PATENT APPLICATION US/09/027,777

8

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						INPUT SET: S27964.raw
	426	(B) 5	TYPE: amino acid			
	427	(C) :	STRANDEDNESS:			
	428	(D) :	TOPOLOGY: linear			
	429					
	430	(ii) MOLECU	ULE TYPE: peptide			
	431					
	432					
	433	(ix) FEATU				
	434	• •	NAME/KEY: Modified	d-site		
	435		LOCATION: 1			
>	436				"Modified	by a Boc protecting
	437	group and a tBu	protecting group	<b>o"</b>		
	438					
	439					
	440	(ix) FEATU		3		
	441		NAME/KEY: Modified	a-site		
	442		LOCATION: 4	/nnad	mysaifisa "	bu a Dhf madastina
>	443		NOTE INFORMATION:	/product=	wodiiied	by a Pbf protecting
	444 445	group"				
	446	(ix) FEATU	or•			
	447		NAME/KEY: Modified	l-site		
	448	, ,	LOCATION: 5	2 5100		
>	449	(D)/Í	Note INFORMATION:	/product=	"Modified	by a tBu protecting
	450	group"		, 200000		
	451	J <b>- -</b>				
	452	(ix) FEATUR	RE:			
	453	(A) I	NAME/KEY: Modified	d-site		
	454		LOCATION: 7			
>	455	(D) (I	Note INFORMATION	/product=	"Modified	by a Pbf protecting
	456	group"				
	457					
	458	(ix) FEATU				
	459		NAME/KEY: Modified	d-site		
	460		LOCATION: 8		3:6: 3	-16 1 1
>	461		Note INFORMATION:	/product=	"Modified	by a Pbf protecting
	462	group"				
	463 464	(ix) FEATU	ap.			
	465	· ·	NAME/KEY: Modified	1-cita		
	466		LOCATION: 9	1-3166		
>	467			/product=	"Modified	by a Bu protecting
•	468	group"		, <b>P</b> 10000		ar a processing
	469	3r				
	470	(ix) FEATUR	RE:			
	471		NAME/KEY: Modified	d-site		
	472	(B) I	LOCATION: 10			
>	473	(D) A	Note INFORMATION	/product=	"Modified	by a tBu protecting
	474	group"		-		_
	475					
	476	(ix) FEATUR				
	477		NAME/KEY: Modified	d-site		
	478	(B) I	LOCATION: 11			

531



DATE: 08/08/98 TIME: 15:51:52

INPUT SET: S27964.raw (D) (Note INFORMATION: )/product= "Modified by a Acm pr tecting --> 479 group" 480 481 (ix) FEATURE: 482 (A) NAME/KEY: Modified-site 483 484 (B) LOCATION: 15 (D) Note INFORMATION: /product= "Modified by a Pbf protecting 485 486 group" 487 488 (ix) FEATURE: 489 (A) NAME/KEY: Modified-site 490 (B) LOCATION: 17 (D) (Note INFORMATION: )/product= "Modified by a OtBu protecting 491 492 group" 493 494 (ix) FEATURE: (A) NAME/KEY: Modified-site 495 496 (B) LOGATION: 18 (D) (Note INFORMATION; /product= "Modified by a Pbf protecting 497 --> 498 group" 499 500 (ix) FEATURE: 501 (A) NAME/KEY: Modified-site 502 (B) LOCATION: 22 (D) (Note INFORMATION): /product= "Modified by a Trt protecting --> 503 group" 504 505 506 (ix) FEATURE: 507 (A) NAME/KEY: Modified-site 508 (B) LOCATION: 23 (D) Note INFORMATION: /product= "Modified by a tBu protecting 509 group" 510 511 (ix) FEATURE: 512 (A) NAME/KEY: Modified-site 513 (B) LOCATION: 27 514 --> 515 (D) Note INFORMATION: /product= "Modified by a Trt protecting group" 516 517 (ix) FEATURE: 518 (A) NAME/KEY: Modified-site 519 520 LOCATION: 28 (D) Note INFORMATION:) /product= "Modified by a Trt protecting --> 521 group" 522 523 (ix) FEATURE: 524 (A) NAME/KEY: Modified-site 525 (B) LOCATION: 29 526 --> (D) Note INFORMATION: /product= "Modified by a tBu protecting 527 group" 528 529 530 (ix) FEATURE: (A) NAME/KEY: Modified-site

8

PAGE: 8

## RAW SEQUENCE LISTING PATENT APPLICATION US/09/027,777

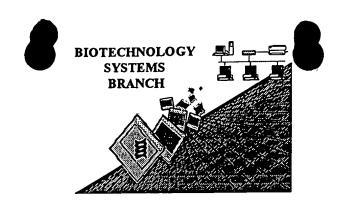
DATE: 08/08/98 TIME: 15:51:53

		INPUT SET: S27964.raw
	532	(B) LOCATION: 31
~->	533	(D) N te INFORMATION: product= "Modified by a Pbf pr tecting
	534	group"
	535	
	536	(ix) FEATURE:
	537	(A) NAME/KEY: Modified-site
	538	(B) LOCATION: 32
>	539	(D) Note INFORMATION: /product= "Modified by a tBu protecting
	540	group and an OtBu protecting group"
	541	
	542	, ·
	543	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
	544	
	545	Thr Ala Pro Arg Ser Leu Arg Arg Ser Ser Cys Phe Gly Gly Arg Met
	546	10 6 15
	547	
	548	Asp Arg Ile Gly Ala Gln Ser Gly Leu Gly Cys Asn Ser Phe Arg Tyr
	549	20 25 30
	550	
	551	·
	552	(2) INFORMATION FOR SEQ ID NO:11:
	553	( ) ORANGE GUADAGERTORIO
	554	(i) SEQUENCE CHARACTERISTICS:
	555	(A) LENGTH: 32 amino acids
	556 557	(B) TYPE: amino acid
	557 558	(C) STRANDEDNESS: (D) TOPOLOGY: linear
	559	(D) TOPOLOGI: IInear
	560	(ii) MOLECULE TYPE: peptide
	561	(II) MODECOLE IIFE. Peptide
	562	
٠.	563	(ix) FEATURE:
	564	(A) NAME/KEY: Modified-site
	565	(B) LOCATION: 11
>	566	(D) Note INFORMATION; /product= "Modified by a Acm protecting
•	567	group"
	568	5
	569	
	570	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
	571	, , <u> </u>
	572	Thr Ala Pro Arg Ser Leu Arg Arg Ser Ser Cys Phe Gly Gly Arg Met
	573	1 5 10 15
	574	· · · · · · · · · · · · · · · ·
	575	Asp Arg Ile Gly Ala Gln Ser Gly Leu Gly Cys Asn Ser Phe Arg Thr
	576	20 25 30
	577	
	578	$\cdot$



DATE: 08/08/98 TIME: 15:51:56

Line	Error	Original Text
244	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
250	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
256	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
262	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
268	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
291	Unknown or Misplaced Identifier	(D) Note INFORMATION: /note=
297	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
303	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
309	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
315	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
321	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
327	Unknown or Misplaced Identifier	(D) Note INFORMATION: /note=
350	Unknown or Misplaced Identifier	(D) Note INFORMATION: /note=
356	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
362	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
368	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
374	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
380	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
386	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
392	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
398	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
404	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
410	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
436	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
443	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
449	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
455	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
461	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
467	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
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479	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
485	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
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497	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =
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566	Unknown or Misplaced Identifier	(D) Note INFORMATION: /product =



# Notice of Availability of Checker Program

Applicant Aid for Biotechnology Computer Readable Form (CRF)
Sequence Listing Submissions

The Patent and Trademark Office (PTO) has developed a computer program, called Checker, that will aid applicants in identifying and correcting errors prior to making submissions for compliance with the Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures (Sequence Rules: 37CRF 1.821 through 1.825). Final rules were published in the Federal Register (55 FR18230) on May 1, 1990, and in the PTO Official Gazette (1114 Off.Gaz.PatOffice 29) on May 15, 1990.

Checker is a DOS-based software program that is intended to assist users in determining whether errors may be present in the sequence listings, and is not intended to guarantee that the submission is error-free.

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- Dial-up access through the Internet. Location is ftp://ftp.uspto.gov
   The software is in current directory: pub/checker/
   Download all the files. Cost: Free-of-charge
- 3) For diskette copies, mail to: U.S.P.T.O., OEIP, CRYSTAL PARK 3, SUITE 441 WASHINGTON DC 20231

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For Further Information, Contact: Arti Shah at 703-308-4212